

**AMENDMENTS TO THE CLAIMS**

Please amend Claims 1, 8 and 9, as follows:

1           1.       (currently amended) A peritoneal dialysis system for a patient, comprising:  
2                   a peritoneal dialyzer that utilizes dialysate to remove impurities from the blood of  
3       the patient;  
4                   a regenerated dialysate inlet tube leading into the peritoneal dialyzer and a spent  
5       dialysate outlet tube leading out of the peritoneal dialyzer, said regenerated dialysate inlet tube  
6       includes a side port for the infusion of a dialysate regenerating additive and  
7                   a sorbent section for regenerating the dialysate, wherein the sorbent section is  
8       adapted to be worn on the body of a patient.

1           2.       (withdrawn) The peritoneal dialysis system of claim 1, wherein the sorbent  
2       section comprises at least one sorbent device wherein said at least one sorbent device is  
3       connected in series.

1           3.       (withdrawn) The peritoneal dialysis system of claim 2, wherein each of the at  
2       least one sorbent device has a flexible casing adapted to conform to the body contour of the  
3       patient.

1           4.       (withdrawn) The peritoneal dialysis system of claim 2, wherein the number of  
2       sorbent devices may be varied to reflect different dialysis prescriptions.

1           5.       (cancel)

1           6.       (cancel)

1           7.       (withdrawn) The peritoneal dialysis system of claim 6, wherein the additives are  
2 pumped into the dialysate from a plurality of additive reservoirs.

1           8.       (currently amended) The peritoneal dialysis system of claim [[6]] 1, wherein the  
2 rate of infusion of ~~each~~ said dialysate regenerating additive is controlled electronically.

1           9.       (currently amended) The peritoneal dialysis system of claim [[6]] 1, wherein the  
2 dialysate regenerating additive is ~~additives are~~ chosen from the group consisting of: sodium  
3 citrate, calcium, potassium and sodium bicarbonate.

1           10.      (withdrawn) The peritoneal dialysis system of claim 5, wherein the spent  
2 dialysate tube leads into the plurality of sorbent devices and the regenerated dialysate tube leads  
3 out of the plurality of sorbent devices.

1           11.      (withdrawn) The peritoneal dialysis system of claim 2, wherein the at least one  
2 sorbent-device comprises replaceable cartridges.

1           12.      (withdrawn) The peritoneal dialysis system of claim 11, wherein the replaceable  
2 cartridges include more than one of activated charcoal, urease, zirconium phosphate, hydrous  
3 zirconium oxide and activated carbon.

1           13.   (withdrawn) The peritoneal dialysis system of claim 2, wherein the at least one  
2   sorbent-device are connected in parallel.

1           14.-25. (canceled)